

THE BIOLOGICAL LABORATORY
Long Island Biological Association
Cold Spring Harbor, Long Island, New York
SYMPOSIA ON QUANTITATIVE BIOLOGY
XVIII. VIRUSES

JUNE 5th to 11th, 1953

As part of its policy of fostering a closer relation between biology and the other basic sciences, the Laboratory each summer invites a group actively interested in a specific aspect of quantitative biology, or in methods and theories applicable to it, to take part in a symposium.

As a rule the participants are in residence at Cold Spring Harbor during the whole period. The number of investigators who may attend the meetings and take part in the discussions is limited by the available accommodations. All who are interested should apply for registration early. Preference will be given to those who intend to stay throughout the meetings and expect to take part in discussions. Discussions for which manuscripts are submitted by the last day of the meetings will be printed in the symposium volume.

Morning sessions will begin at 9:00 a.m., and afternoon sessions at 2:00 p.m.

FRIDAY, JUNE 5

Chairman: E. L. Tatum Stanford University, Stanford, Calif.

Delbruck, M., California Institute of Technology, Pasadena, Calif. Introductory remarks about the program.

Virus in the Vegetative State and Its Maturation

Doermann, A. H., Oak Ridge National Laboratory, Oak Ridge, Tenn. Evidence for the occurrence of a vegetative state during the life cycle of bacteriophage.

Levinthal, Cyrus, University of Michigan, Ann Arbor, Mich. Maturation of phage and evidence of phage precursors.
Henle, Werner, The Children's Hospital of Philadelphia and the University of Pennsylvania, Philadelphia, Pa. Developmental cycles in animal viruses. *Apply*

SATURDAY, JUNE 6

Chairman: F. K. Sanders, University Museum, Oxford, England

Provirus

• Bertani, G., University of Illinois, Urbana, Ill. Interference at the prophage level and the lysogenic cycle of phage multiplication.

• Hayes, William, Postgraduate Medical School of London, England. The mechanism of genetic recombination in bacteria. *Apply and 24 hours*

The Transition from Provirus to Vegetative Virus

Jacob, Francois, Institut Pasteur, Paris, France. Induction of prophage development in lysogenic bacteria. *Lwoff 24h*

SUNDAY, JUNE 7

Chairman: Roger M. Herriott, Johns Hopkins School of Hygiene, Baltimore, Md.

The Transition from the Infective to the Vegetative State

1. *Watson*
2. Hershey, A. D., Carnegie Institution, Cold Spring Harbor, N. Y. Nucleic acid economy in bacteria infected with T2.
3. Markham, Roy, Agricultural Research Council Plant Virus Research Unit, Moltano Institute, Cambridge University, Cambridge, England. Chemistry of functional components of viruses.

MONDAY, JUNE 8

Chairman: Joseph W. Beard, Duke University School of Medicine, Durham, N. C.

Structure of Viruses

Williams, Robley C., University of California, Berkeley, Calif. The size and shape of viruses, as determined by electron microscopy.

Adams, Mark H., New York University College of Medicine, New York, N. Y. The stability of phages as a function of the ionic environment.

Lanni, Frank, and Yvonne Thery Lanni, University of Illinois, Urbana, Ill. Antigenic structure of bacteriophage.

TUESDAY, JUNE 9

Chairman: Andre Lwoff, Institut Pasteur, Paris, France
Biochemical Studies of Virus Infections

Kozloff, Lloyd M., University of Chicago, Chicago, Ill. Sources of phage material, and its fate upon infection.

Cohen, Seymour S., The Children's Hospital of Philadelphia and the University of Pennsylvania, Philadelphia, Pa. Controlling mechanisms in the metabolism of virus-infected cells.

Host-controlled Variations of Viruses

Luria, S. E., University of Illinois, Urbana, Ill. Phenotypic variations in bacteriophages and their relation to virus variation.

WEDNESDAY, JUNE 10

Chairman: George K. Hirst, The Public Health Research Institute of the City of New York, N. Y.

Host-controlled Variations of Viruses (cont.)

Bowen, George H., Oak Ridge National Laboratory, Oak Ridge, Tenn. Studies of ultraviolet irradiation phenomena — an approach to the problems of bacteriophage reproduction.

Zinder, Norton D., The Rockefeller Institute for Medical Research, New York, N. Y. Infective heredity in bacteria.

THURSDAY, JUNE 11

Chairman: Frank L. Horsfall, Jr., The Hospital of the Rockefeller Institute for Medical Research, New York, N. Y.

Viruses in Tissue Culture; Summary and Conclusions

Dulbecco, R., California Institute of Technology, Pasadena, Calif. Some problems of animal virology as studied by the plaque technique.

Hershey, A. D., Carnegie Institution, Cold Spring Harbor, N. Y. Summary and conclusions regarding phages.